PREMIUM SENSORS POWERED BY NORTH SOLAR SCREEN

WIND & SUN CLIMATE SENSOR 434MHz

NORTH SOLAR SCREEN
RULE THE SUN™

TECHNICAL DATA

Frequency (MHz)	434.15
Power Supply	120V - 60Hz
Wind Sensor (5 levels)	6 / 12 / 18 / 25 / 31 mph
Sun Sensor (4 levels)	5 / 20 / 40 / 60 Klux
Protection Rate	IP54
Coverage (int/ext)	65 ft
Working Temp (°F)	23° to 104°
Dimensions (in)	10.62 x 4.72 x 3.54
Weight (lbs)	0.14

INSTALLATION

ATTENTION: before installing and using the sensor please read the instructions carefully. Before the installation check the compatibility of the device with the associated motors and controls.

SAFETY INSTRUCTIONS

- Risk of injury through an electric shock.
- Terminal connections to network must be made by an authorised electrician.
- Disconnect all connecting cables throughout the system before carrying out installation or maintenance.
- Ensure that the device cannot be accidentally switched on.
- Keep persons away from the systems operating range.
- An automatically controlled sun protection system can move unexpectedly. Therefore, never place objects in the travel range.
- Keep children away from controls.
- Always observe country-specific regulations.
- If the system is controlled by one or more devices, the system operating range must be visible during operation.
- Always adhere to relevant building regulations.
- Automatic and manual movement when frozen (e.g. frozen wind wheel) and during storms can seriously damage the system.
- The receivers (e.g. radio control) no longer function correctly after a power failure. In this case, an extended sun protection system cannot be retracted, e.g., during a storm.

Wireless climatic sensor 434.15MHz which controls radio motor/s for awnings according to weather conditions under stated thresholds.

IMPORTANT: this sensor does not protect the awnings against strong gusts of wind. When weather conditions presents this sort of risk, ensure that the awning remains closed.

INSTALLATION

Note: ensure that sensors are not installed close to metal surfaces, panes of metalised glass or generally magnetic fields can reduce the radio signals range.
Radio devices working on the same frequency could interfere with signals reception.

Select the right place for the installation of the sensor. Be careful that trees, roofs or parts of the building do not affect the light intensity and wind measurement.
The adjustable base of the sensor allows the right installation (**horizontal position**) on any surface

120V - 60Hz
Power Supply

WIRING CONNECTION

1. Open the top cover by the 4 screws on the bottom.
2. Connect the power line as described below. **Check that the power supply corresponds to the label data.**
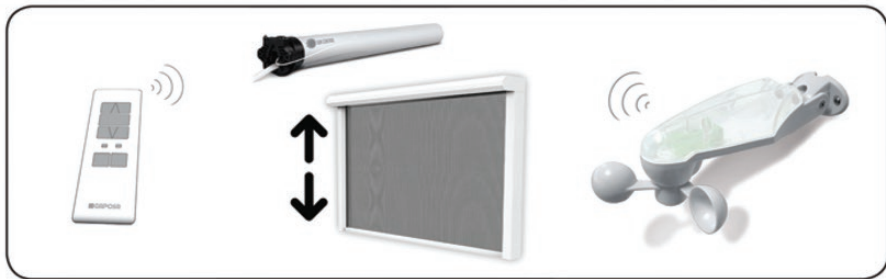3. Close the top cover and tight the screw to seal it.
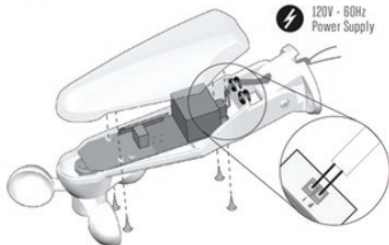
Additional Accessories required:
2-wire cable that meets the standards of the country in which it is installed

PROGRAMMING REMOTES

WIND PROTECTION FUNCTION
Retracts and prevents the awning to open for 20 minutes if the wind threshold is exceeded.

TESTING MODE (short timing)
Most of the signals coming from the sensor are often delayed for the optimal movements of the motor/s.

For testing purposes the sun-wind sensor can be turned in a "testing status" where timings and feedbacks are shortened (seconds instead of minutes).

1. To start the test press shortly the button **W** for 5 times. The motor makes a brief jog.
2. To end the test press again shortly the button **W** for 5 times. The motor makes a long jog.

IMPORTANT NOTE: the testing mode if not closed by pressing again **W** button for 5 times, expires automatically after 10 minutes.

AWNING FEEDBACK
- Wind alarm - Manual extension is stopped after 2 seconds and the awning retracts
- Sensor loss (Motor safety mode*) - Manual extension works in "press and hold" way only. In this status of safety mode the awning anyway retracts automatically every 30 minutes.
- Power failure - In case of power failures, when it comes back the awning automatically closes for safety aspects.

*MOTOR SAFETY MODE:
If the motor doesn't receive the wind signal for at least once every 30min. it will close the awnings for safety reason and turns in safety mode status. This may happen if the radio anemometer is

broken or if it has no power.
During the safety mode status the motor will be re-activated in "press and hold" way only.
When the sun-wind sensor restarts sending the wind signal the motor will end the safety mode status, otherwise, it will continue to close the awning every 30min.

SETTING AND PROGRAMMING PROCEDURES
PROGRAMMING SENSOR
IMPORTANT: First program a transmitter with the motor then set the limits of the motor and finally set the transmitter with the sensor.
Programming procedure of sensor is like adding a new transmitter to the motor so:
1. Press and hold **PROG-TX** button on the back of transmitter till the motor starts moving, then release. **PROG-TX** button (the motor stops).
2. Press and hold for at least 3 seconds **S** button on the wind sensor until LED 9 on the wind sensor blinks.
Wind sensor is now programmed.

CHECKING CONNECTION BETWEEN SENSOR AND MOTOR
1. Using already set transmitter press simultaneously UP STOP DOWN buttons till the motor makes a number of jogs corresponding to the number of wind threshold
2. Press and hold for at least 3 seconds **S** button on the wind sensor until LED 9 on the wind sensor blinks.

SETTING WIND THRESHOLD (5 LEVELS TO BE SELECTED ONLY THROUGH THE TRANSMITTER)
1. Using already set transmitter press simultaneously UP STOP DOWN buttons till the

motor makes a number of jogs corresponding to the number of wind threshold.
3. Press STOP to confirm the selected wind threshold. The motor makes the selected number of jogs as confirmation.
The wind speed level that the sensor detects is displayed by the number (from 1 to 5) of LEDs ON.

1 LEVEL	LOW WIND SPEED
2 LEVEL	LOW/MEDIUM WIND SPEED
3 LEVEL	MEDIUM WIND SPEED
4 LEVEL (DEFAULT)	MEDIUM/HIGH WIND SPEED
5 LEVEL	HIGH WIND SPEED

SETTING SUN THRESHOLD (4 LEVELS TO BE SELECTED ONLY ON THE SENSOR)
Press shortly and sequentially the **S** button to change level. The level is displayed by 4 led on the **S** side.

No LED	Sun sensor disabled
LED 6	Level 1 (5 Klux - low lightness, early morning)
LED 7	Level 2 (20 Klux)
LED 8	Level 3 (30 Klux)
LED 9	Level 4 (60 Klux - high lightness, noon)

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